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                   GenCore version 5.1.4_p5_4578
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OM protein - protein search, using sw model

Run on:         March 28, 2003, 12:09:01 ; Search time 5.01407 Seconds
                                           (without alignments)
                                           1463.971 Million cell updates/sec

Title:          US-09-924-946-4
Perfect score:  694
Sequence:       1 PILASAKQHSPVTEGAVEVK.........ARGKLRPACPGGMHAVVSCV 125

Scoring table:  BLOSUM62
                Gapop 10.0 , Gapext 0.5

Searched:       237916 seqs, 58723674 residues

Total number of hits satisfying chosen parameters:      237916

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :       Published_Applications_AA:*
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                2:  /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
                3:  /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
                4:  /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
                5:  /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
                6:  /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
                7:  /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
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                10:  /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
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      Pred. No. is the number of results predicted by chance to have a
      score greater than or equal to the score of the result being printed,
      and is derived by analysis of the total score distribution.

                                   SUMMARIES
                      %
Result              Query
   No.    Score     Match Length DB  ID                          Description
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     1      694     100.0    125  10  US-09-924-946-4               Sequence 4, Appli
     2      694     100.0    443  12  US-10-067-422-27              Sequence 27, Appl
     3      694     100.0    573  12  US-10-067-422-10              Sequence 10, Appl
     4      694     100.0    756  10  US-09-870-110-2               Sequence 2, Appli
     5      694     100.0    756  10  US-09-924-946-2               Sequence 2, Appli
     6      610      87.9    757  10  US-09-823-038A-52             Sequence 52, Appl
     7      294      42.4     50  12  US-10-067-422-19              Sequence 19, Appl
     8      286      41.2    769  10  US-09-835-996A-39             Sequence 39, Appl
     9      281      40.5     51  12  US-10-067-422-20              Sequence 20, Appl
    10    269.5      38.8    641  9  US-09-948-820-51             Sequence 51, Appl
    11    269.5      38.8    732  10  US-09-835-996A-13             Sequence 13, Appl
    12    269.5      38.8    753  10  US-09-782-980-11              Sequence 11, Appl
    13    269.5      38.8    753  10  US-09-835-996A-29             Sequence 29, Appl
    14    269.5      38.8    753  10  US-09-909-743-2               Sequence 2, Appli
    15    256.5      37.0    754  10  US-09-782-980-17              Sequence 17, Appl
    16    256.5      37.0    754  10  US-09-909-743-8               Sequence 8, Appli
    17      233      33.6    774  9  US-09-974-298-122            Sequence 122, App
    18      233      33.6    774  10  US-09-782-980-16              Sequence 16, Appl
    19      233      33.6    774  10  US-09-909-743-7               Sequence 7, Appli
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    20    133.5      19.2    822  9  US-09-147-947-6              Sequence 6, Appli
    21      133      19.2   1319  9  US-10-042-431-14             Sequence 14, Appl
    22      133      19.2   1319  9  US-09-759-130B-384           Sequence 384, App
    23      133      19.2   1413  9  US-10-042-431-13             Sequence 13, Appl
    24      133      19.2   1413  9  US-09-759-130B-383           Sequence 383, App
    25      133      19.2   1453  9  US-10-042-431-11             Sequence 11, Appl
    26      133      19.2   1453  9  US-09-759-130B-381           Sequence 381, App
    27    130.5      18.8    761  9  US-09-147-947-4              Sequence 4, Appli
    28    127.5      18.4    451  10  US-09-782-980-19             Sequence 19, Appl
    29    127.5      18.4    451  10  US-09-909-743-10             Sequence 10, Appl
    30      125      18.0   1116  9  US-09-977-577-10             Sequence 10, Appl
    31      125      18.0   1149  9  US-09-977-577-11             Sequence 11, Appl
    32      125      18.0   1151  9  US-09-977-577-13             Sequence 13, Appl
    33      125      18.0   1156  9  US-09-977-577-12             Sequence 12, Appl
    34    123.5      17.8    458  10  US-09-782-980-126            Sequence 126, App
    35    123.5      17.8   1436  9  US-10-042-431-78             Sequence 78, Appl
    36    123.5      17.8   1436  9  US-09-759-130B-448           Sequence 448, App
    37      123      17.7    127  9  US-09-866-050A-504           Sequence 504, App
    38    119.5      17.2    347  9  US-09-905-291A-148           Sequence 148, App
    39    119.5      17.2    347  9  US-09-902-853-148            Sequence 148, App
    40    119.5      17.2    347  9  US-09-907-824-148            Sequence 148, App
    41    119.5      17.2    347  9  US-09-907-841-148            Sequence 148, App
    42    119.5      17.2    347  9  US-09-904-011-148            Sequence 148, App
    43    119.5      17.2    347  9  US-09-906-742-148            Sequence 148, App
    44    119.5      17.2    347  9  US-09-906-838-148            Sequence 148, App
    45    119.5      17.2    347  9  US-09-907-613-148            Sequence 148, App

                                  ALIGNMENTS


RESULT 1
US-09-924-946-4
; Sequence 4, Application US/09924946
; Patent No. US20020102645A1
; GENERAL INFORMATION:
;  APPLICANT: American Home Products Corporation
;  APPLICANT:  Evans, Mark
;  APPLICANT:  Scicchitano, Marshall
;  APPLICANT:  Bapat, Ashok
;  APPLICANT:  Beer, Eric
;  APPLICANT:  Bhat, Ramesh
;  APPLICANT:  Ferris, Elissa
;  APPLICANT:  Mastroeni, Rob
;  APPLICANT:  Zhang, Jianxiong
;  APPLICANT:  Karathanasis, Sotirios K.
;  TITLE OF INVENTION: A No. US20020102645A1el Member of the Lysyl Oxidase Gene Family
;  FILE REFERENCE: 0630/1G703-US2
;  CURRENT APPLICATION NUMBER: US/09/924,946
;  CURRENT FILING DATE:  2001-08-08
;  PRIOR APPLICATION NUMBER: 60/223,763
;  PRIOR FILING DATE: 2000-08-08
;  PRIOR APPLICATION NUMBER: 60/255,838
;  PRIOR FILING DATE: 2000-12-15
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 4
;   LENGTH: 125
;   TYPE: PRT
;   ORGANISM: Human
US-09-924-946-4

  Query Match             100.0%;  Score 694;  DB 10;  Length 125;
  Best Local Similarity   100.0%;  Pred. No. 4.5e-71;
  Matches  125;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Db          1 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 60

Qy         61 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 120
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Qy        121 VVSCV 125
              |||||
Db        121 VVSCV 125


RESULT 2
US-10-067-422-27
; Sequence 27, Application US/10067422
; Patent No. US20020143170A1
; GENERAL INFORMATION:
;  APPLICANT: Ni et al.
;  TITLE OF INVENTION: Bone Morphogenic Protein (BMP) Polynucleotides, Polypeptides, and
;  TITLE OF INVENTION:  Antibodies
;  FILE REFERENCE: PT004P1
;  CURRENT APPLICATION NUMBER: US/10/067,422
;  CURRENT FILING DATE:  2002-02-07
;  PRIOR APPLICATION NUMBER: 09/685,899
;  PRIOR FILING DATE: 2000-10-11
;  PRIOR APPLICATION NUMBER: PCT/US00/09028
;  PRIOR FILING DATE: 2000-04-06
;  PRIOR APPLICATION NUMBER: 60/152,933
;  PRIOR FILING DATE: 1999-09-09
;  PRIOR APPLICATION NUMBER: 60/147,020
;  PRIOR FILING DATE: 1999-08-03
;  PRIOR APPLICATION NUMBER: 60/131,672
;  PRIOR FILING DATE: 1999-04-29
;  PRIOR APPLICATION NUMBER: 60/130,693
;  PRIOR FILING DATE: 1999-04-23
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 27
;   LENGTH: 443
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-067-422-27

  Query Match             100.0%;  Score 694;  DB 12;  Length 443;
  Best Local Similarity   100.0%;  Pred. No. 2.2e-70;
  Matches  125;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         32 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 91

Qy         61 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         92 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 151

Qy        121 VVSCV 125
              |||||
Db        152 VVSCV 156


RESULT 3
US-10-067-422-10
; Sequence 10, Application US/10067422
; Patent No. US20020143170A1
; GENERAL INFORMATION:
;  APPLICANT: Ni et al.
;  TITLE OF INVENTION: Bone Morphogenic Protein (BMP) Polynucleotides, Polypeptides, and
;  TITLE OF INVENTION:  Antibodies
;  FILE REFERENCE: PT004P1
;  CURRENT APPLICATION NUMBER: US/10/067,422
;  CURRENT FILING DATE:  2002-02-07
;  PRIOR APPLICATION NUMBER: 09/685,899
;  PRIOR FILING DATE: 2000-10-11
;  PRIOR APPLICATION NUMBER: PCT/US00/09028
;  PRIOR FILING DATE: 2000-04-06
;  PRIOR APPLICATION NUMBER: 60/152,933
;  PRIOR FILING DATE: 1999-09-09
;  PRIOR APPLICATION NUMBER: 60/147,020
;  PRIOR FILING DATE: 1999-08-03
;  PRIOR APPLICATION NUMBER: 60/131,672
;  PRIOR FILING DATE: 1999-04-29
;  PRIOR APPLICATION NUMBER: 60/130,693
;  PRIOR FILING DATE: 1999-04-23
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 573
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-067-422-10

  Query Match             100.0%;  Score 694;  DB 12;  Length 573;
  Best Local Similarity   100.0%;  Pred. No. 3e-71;
  Matches  125;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        162 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 221

Qy         61 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        222 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 281

Qy        121 VVSCV 125
              |||||
Db        282 VVSCV 286


RESULT 4
US-09-870-110-2
; Sequence 2, Application US/09870110
; Patent No. US20020068322A1
; GENERAL INFORMATION:
;  APPLICANT: Rachel Meyers
;  TITLE OF INVENTION: 47765, A No. US20020068322A1el Human Lysyl Oxidase and
;  TITLE OF INVENTION:  Uses Thereof
;  FILE REFERENCE: MNI-160
;  CURRENT APPLICATION NUMBER: US/09/870,110
;  CURRENT FILING DATE:  2001-05-29
;  PRIOR APPLICATION NUMBER: 60/207,650
;  PRIOR FILING DATE: 2000-05-26
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;   LENGTH: 756
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-870-110-2

  Query Match             100.0%;  Score 694;  DB 10;  Length 756;
  Best Local Similarity   100.0%;  Pred. No. 4.3e-70;
  Matches  125;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          1 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 60
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        163 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 222

Qy         61 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 120
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        223 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 282

Qy        121 VVSCV 125
              |||||
Db        283 VVSCV 287


RESULT 5
US-09-924-946-2
; Sequence 2, Application US/09924946
; Patent No. US20020102645A1
; GENERAL INFORMATION:
;  APPLICANT: American Home Products Corporation
```

```
;  APPLICANT:  Evans, Mark
;  APPLICANT:  Scicchitano, Marshall
;  APPLICANT:  Bapat, Ashok
;  APPLICANT:  Beer, Eric
;  APPLICANT:  Bhat, Ramesh
;  APPLICANT:  Ferris, Elissa
;  APPLICANT:  Mastroeni, Rob
;  APPLICANT:  Zhang, Jianxiong
;  APPLICANT:  Karathanasis, Sotirios K.
;  TITLE OF INVENTION: A No. US20020102645A1el Member of the Lysyl Oxidase Gene Family
;  FILE REFERENCE: 0630/1G703-US2
;  CURRENT APPLICATION NUMBER: US/09/924,946
;  CURRENT FILING DATE:  2001-08-08
;  PRIOR APPLICATION NUMBER: 60/223,763
;  PRIOR FILING DATE: 2000-08-08
;  PRIOR APPLICATION NUMBER: 60/255,838
;  PRIOR FILING DATE: 2000-12-15
;  NUMBER OF SEQ ID NOS: 11
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 2
;   LENGTH: 756
;   TYPE: PRT
;   ORGANISM: Human
US-09-924-946-2

  Query Match             100.0%;  Score 694;  DB 10;  Length 756;
  Best Local Similarity   100.0%;  Pred. No. 4.3e-70;
  Matches  125;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy       1 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 60
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Db     163 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 222

Qy      61 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 120
             ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     223 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 282

Qy     121 VVSCV 125
             |||||
Db     283 VVSCV 287


RESULT 6
US-09-823-038A-52
; Sequence 52, Application US/09823038A
; Patent No. US20020058335A1
; GENERAL INFORMATION:
;  APPLICANT: Strachan, Lorna
;  APPLICANT:  Sleeman, Matthew
;  APPLICANT:  Abernethy, Nevin
;  APPLICANT:  Onrust, Rene
;  APPLICANT:  Kumble, Anand
;  APPLICANT:  Murison, Greg
;  TITLE OF INVENTION: Compositions Isolated From Stromal Cells
;  TITLE OF INVENTION:  and Methods For Their Use
;  FILE REFERENCE: 11000.1037c3
;  CURRENT APPLICATION NUMBER: US/09/823,038A
;  CURRENT FILING DATE:  2001-07-09
;  NUMBER OF SEQ ID NOS: 61
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 52
;   LENGTH: 757
;   TYPE: PRT
;   ORGANISM: Mouse
US-09-823-038A-52

  Query Match             87.9%;  Score 610;  DB 10;  Length 757;
  Best Local Similarity   85.6%;  Pred. No. 1.3e-60;
  Matches  107;  Conservative    9;  Mismatches    9;  Indels    0;  Gaps    0;

Qy       1 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 60
             |||||||:|||||||||||:|:|||||||||||||||||||||||||||:  |:||||||
Db     164 PILASAKRHSPVTEGAVEVRYDGHWRQVCDQGWTMNNSRVVCGMLGFPSQTSVNSHYYRK 223
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Qy      61 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 120
             ||:|||:|||||| ||| |||||||:| | |||||:| ||||||| ||||| ||||||||
Db     224 VWNLKMKDPKSRLNSLTKKNSFWIHRVDCFGTEPHLAKCQVQVAPGRGKLRAACPGGMHA 283

Qy     121 VVSCV 125
             |||||
Db     284 VVSCV 288


RESULT 7
US-10-067-422-19
; Sequence 19, Application US/10067422
; Patent No. US20020143170A1
; GENERAL INFORMATION:
;  APPLICANT: Ni et al.
;  TITLE OF INVENTION: Bone Morphogenic Protein (BMP) Polynucleotides, Polypeptides, and
;  TITLE OF INVENTION:  Antibodies
;  FILE REFERENCE: PT004P1
;  CURRENT APPLICATION NUMBER: US/10/067,422
;  CURRENT FILING DATE:  2002-02-07
;  PRIOR APPLICATION NUMBER: 09/685,899
;  PRIOR FILING DATE: 2000-10-11
;  PRIOR APPLICATION NUMBER: PCT/US00/09028
;  PRIOR FILING DATE: 2000-04-06
;  PRIOR APPLICATION NUMBER: 60/152,933
;  PRIOR FILING DATE: 1999-09-09
;  PRIOR APPLICATION NUMBER: 60/147,020
;  PRIOR FILING DATE: 1999-08-03
;  PRIOR APPLICATION NUMBER: 60/131,672
;  PRIOR FILING DATE: 1999-04-29
;  PRIOR APPLICATION NUMBER: 60/130,693
;  PRIOR FILING DATE: 1999-04-23
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
;   LENGTH: 50
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-067-422-19

  Query Match             42.4%;  Score 294;  DB 12;  Length 50;
  Best Local Similarity   100.0%;  Pred. No. 2.3e-26;
  Matches   50;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      21 YEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRKVWDLKMRDPK 70
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Db       1 YEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRKVWDLKMRDPK 50


RESULT 8
US-09-835-996A-39
; Sequence 39, Application US/09835996A
; Patent No. US20020142953A1
; GENERAL INFORMATION:
;  APPLICANT: Ballinger, Dennis
;  APPLICANT:  Loeb, Debra
;  APPLICANT:  Montgomery, Julie
;  APPLICANT:  Tang, Y. Tom
;  APPLICANT:  Zhou, Ping
;  APPLICANT:  Goodrich, Ryle
;  APPLICANT:  Liu, Chenghua
;  APPLICANT:  Asundi, Vinod
;  APPLICANT:  Zhao, Qing
;  APPLICANT:  Wehrman, Tom
;  APPLICANT:  Drmanac, Radoje
;  APPLICANT:  Ren, Feiyan
;  APPLICANT:  Qian, Xiahong
;  APPLICANT:  Wang, Dunrui
;  TITLE OF INVENTION: MATERIALS AND METHODS RELATING TO LIPID METABOLISM
;  FILE REFERENCE: 28110/35915A
;  CURRENT APPLICATION NUMBER: US/09/835,996A
;  CURRENT FILING DATE:  2001-04-16
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;  PRIOR APPLICATION NUMBER: US 60/197,137
;  PRIOR FILING DATE: 2000-04-14
;  PRIOR APPLICATION NUMBER: US 09/714,936
;  PRIOR FILING DATE: 2000-11-17
;  PRIOR APPLICATION NUMBER: US 09/667,298
;  PRIOR FILING DATE: 2000-09-22
;  PRIOR APPLICATION NUMBER: US 09/631,451
;  PRIOR FILING DATE: 2000-08-03
;  PRIOR APPLICATION NUMBER: US 09/598,042
;  PRIOR FILING DATE: 2000-06-20
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 39
;   LENGTH: 769
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-835-996A-39

  Query Match             41.2%;  Score 286;  DB 10;  Length 769;
  Best Local Similarity   45.8%;  Pred. No. 5.5e-24;
  Matches   60;  Conservative   21;  Mismatches   42;  Indels    8;  Gaps    3;

Qy       1 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 60
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Db     173 PAVGWGRRPLPVTEGLVEVRLPDGWSQVCDKGWSAHNSHVVCGMLGFPSEKRVNAAFYRK 232

Qy      61 V----WDLKMRDPK--SRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPAC 114
           :      :  | ||   || :   ::|| :| | |:||| |:: | ::   |    |  |
Db     233 LRKRAAKVSARHPKPLGRLLAQRQQHSFGLHGVACVGTEAHLSLCSLEFYRANDTAR--C 290

Qy     115 PGGMHAVVSCV 125
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Db     291 PGGGPAVVSCV 301

RESULT 9
US-10-067-422-20
; Sequence 20, Application US/10067422
; Patent No. US20020143170A1
; GENERAL INFORMATION:
;  APPLICANT: Ni et al.
;  TITLE OF INVENTION: Bone Morphogenic Protein (BMP) Polynucleotides, Polypeptides, and
;  TITLE OF INVENTION:  Antibodies
;  FILE REFERENCE: PT004P1
;  CURRENT APPLICATION NUMBER: US/10/067,422
;  CURRENT FILING DATE:  2002-02-07
;  PRIOR APPLICATION NUMBER: 09/685,899
;  PRIOR FILING DATE: 2000-10-11
;  PRIOR APPLICATION NUMBER: PCT/US00/09028
;  PRIOR FILING DATE: 2000-04-06
;  PRIOR APPLICATION NUMBER: 60/152,933
;  PRIOR FILING DATE: 1999-09-09
;  PRIOR APPLICATION NUMBER: 60/147,020
;  PRIOR FILING DATE: 1999-08-03
;  PRIOR APPLICATION NUMBER: 60/131,672
;  PRIOR FILING DATE: 1999-04-29
;  PRIOR APPLICATION NUMBER: 60/130,693
;  PRIOR FILING DATE: 1999-04-23
;  NUMBER OF SEQ ID NOS: 32
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
;   LENGTH: 51
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-067-422-20

  Query Match             40.5%;  Score 281;  DB 12;  Length 51;
  Best Local Similarity   100.0%;  Pred. No. 6.9e-25;
  Matches   51;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      71 SRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHAV 121
           |||||||||||||||||||||||||||||||||||||||||||||||||||
Db       1 SRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHAV 51
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RESULT 10
US-09-948-820-51
; Sequence 51, Application US/09948820
; Publication No. US20030050460A1
; GENERAL INFORMATION:
;  APPLICANT: Ni et al.
;  TITLE OF INVENTION: 31 Human Secreted Proteins
;  FILE REFERENCE: PZ034P1
;  CURRENT APPLICATION NUMBER: US/09/948,820
;  CURRENT FILING DATE:  2001-09-10
;  PRIOR APPLICATION NUMBER: US/09/565,391
;  PRIOR FILING DATE: 2000-05-05
;  PRIOR APPLICATION NUMBER: PCT/US99/26409
;  PRIOR FILING DATE: 1999-11-09
;  PRIOR APPLICATION NUMBER: 60/108,207
;  PRIOR FILING DATE: 1998-11-12
;  NUMBER OF SEQ ID NOS: 115
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 51
;   LENGTH: 641
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: SITE
;   LOCATION: (93)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (469)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
;   NAME/KEY: SITE
;   LOCATION: (486)
;   OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-948-820-51

  Query Match             38.8%;  Score 269.5;  DB 9;  Length 641;
  Best Local Similarity   44.0%;  Pred. No. 3.2e-22;
  Matches   55;  Conservative   19;  Mismatches   36;  Indels   15;  Gaps    2;

Qy       1 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 60
           | :   ::  ||||| |||:    | ||||:||: :|| |||||||||||  |:: :|
Db     173 PAVGWGRRPLPVTEGLVEVRLPDGWSQVCDKGWSAHNSHVVCGMLGFPSEKRVNAAFY-- 230

Qy      61 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 120
                      || :   ::|| :| | |:||| |:: | ::   |    |  ||||  |
Db     231 -----------RLLAQRQQHSFGLHGVACVGTEAHLSLCSLEFYRANDTAR--CPGGGPA 277

Qy     121 VVSCV 125
           |||||
Db     278 VVSCV 282

RESULT 11
US-09-835-996A-13
; Sequence 13, Application US/09835996A
; Patent No. US20020142953A1
; GENERAL INFORMATION:
;  APPLICANT: Ballinger, Dennis
;  APPLICANT:  Loeb, Debra
;  APPLICANT:  Montgomery, Julie
;  APPLICANT:  Tang, Y. Tom
;  APPLICANT:  Zhou, Ping
;  APPLICANT:  Goodrich, Ryle
;  APPLICANT:  Liu, Chenghua
;  APPLICANT:  Asundi, Vinod
;  APPLICANT:  Zhao, Qing
;  APPLICANT:  Wehrman, Tom
;  APPLICANT:  Drmanac, Radoje
;  APPLICANT:  Ren, Feiyan
;  APPLICANT:  Qian, Xiahong
;  APPLICANT:  Wang, Dunrui
;  TITLE OF INVENTION: MATERIALS AND METHODS RELATING TO LIPID METABOLISM
```

```
;  FILE REFERENCE: 28110/35915A
;  CURRENT APPLICATION NUMBER: US/09/835,996A
;  CURRENT FILING DATE:  2001-04-16
;  PRIOR APPLICATION NUMBER: US 60/197,137
;  PRIOR FILING DATE: 2000-04-14
;  PRIOR APPLICATION NUMBER: US 09/714,936
;  PRIOR FILING DATE: 2000-11-17
;  PRIOR APPLICATION NUMBER: US 09/667,298
;  PRIOR FILING DATE: 2000-09-22
;  PRIOR APPLICATION NUMBER: US 09/631,451
;  PRIOR FILING DATE: 2000-08-03
;  PRIOR APPLICATION NUMBER: US 09/598,042
;  PRIOR FILING DATE: 2000-06-20
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 13
;   LENGTH: 732
;   TYPE: PRT
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (632)
;   OTHER INFORMATION: Xaa = unknown or other
;   NAME/KEY: misc_feature
;   LOCATION: (672)
;   OTHER INFORMATION: Xaa = unknown or other
;   NAME/KEY: misc_feature
;   LOCATION: (711)
;   OTHER INFORMATION: Xaa = unknown or other
US-09-835-996A-13

  Query Match             38.8%;  Score 269.5;  DB 10;  Length 732;
  Best Local Similarity   44.0%;  Pred. No. 3.8e-22;
  Matches   55;  Conservative   19;  Mismatches   36;  Indels   15;  Gaps    2;

Qy        1 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 60
            | :  ::   ||||| |||:    | ||||:||: :|| |||||||||||  |:: :|
Db      173 PAVGWGRRPLPVTEGLVEVRLPDGWSQVCDKGWSAHNSHVVCGMLGFPSEKRVNAAFY-- 230

Qy       61 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 120
                       || :   ::|| :| | |:||| |:: | ::   |    |  ||||  |
Db      231 -----------RLLAQRQQHSFGLHGVACVGTEAHLSLCSLEFYRANDTAR--CPGGGPA 277

Qy      121 VVSCV 125
            |||||
Db      278 VVSCV 282


RESULT 12
US-09-782-980-11
; Sequence 11, Application US/09782980
; Patent No. US20020072089A1
; GENERAL INFORMATION:
;  APPLICANT: Khodadoust, Mehran M.
;  APPLICANT:  MacBeth, Kyle J.
;  APPLICANT:  Busfield, Samantha J.
;  APPLICANT:  McCarthy, Sean A.
;  APPLICANT:  Holtzman, Douglas A.
;  APPLICANT:  Gu, Wei
;  APPLICANT:  White, David
;  APPLICANT:  Pan, Yang
;  TITLE OF INVENTION: NOVEL ITALY, LOR-2, STRIFE, TRASH, BDSF, LRSG, AND
;  TITLE OF INVENTION:  STMST PROTEIN AND NUCLEIC ACID MOLECULES AND USES
;  TITLE OF INVENTION:  THEREFOR
;  FILE REFERENCE: MNI-121CP
;  CURRENT APPLICATION NUMBER: US/09/782,980
;  CURRENT FILING DATE:  2001-02-13
;  PRIOR APPLICATION NUMBER: PCT/US00/02125
;  PRIOR FILING DATE: 2000-01-27
;  PRIOR APPLICATION NUMBER: 09/448,076
;  PRIOR FILING DATE: 1999-11-23
;  PRIOR APPLICATION NUMBER: 09/276,400
;  PRIOR FILING DATE: 1999-03-25
;  PRIOR APPLICATION NUMBER: 60/117,580
;  PRIOR FILING DATE: 1999-01-27
;  PRIOR APPLICATION NUMBER: 09/014,195
;  PRIOR FILING DATE: 1998-01-27
;  PRIOR APPLICATION NUMBER: 09/014,348
;  PRIOR FILING DATE: 1998-01-27
;  PRIOR APPLICATION NUMBER: 09/086,892
;  PRIOR FILING DATE: 1998-05-29
;  PRIOR APPLICATION NUMBER: 09/296,208
;  PRIOR FILING DATE: 1999-04-21
;  PRIOR APPLICATION NUMBER: 09/063,950
;  PRIOR FILING DATE: 1998-04-21
;  PRIOR APPLICATION NUMBER: 09/561,381
;  PRIOR FILING DATE: 2000-04-28
;  PRIOR APPLICATION NUMBER: 09/561,810
;  PRIOR FILING DATE: 2000-04-28
;  PRIOR APPLICATION NUMBER: 09/087,121
;  PRIOR FILING DATE: 1998-05-29
;  PRIOR APPLICATION NUMBER: 09/672,721
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: 09/049,799
;  PRIOR FILING DATE: 1998-03-27
;  NUMBER OF SEQ ID NOS: 176
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
;   LENGTH: 753
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-782-980-11

  Query Match             38.8%;  Score 269.5;  DB 10;  Length 753;
  Best Local Similarity   44.0%;  Pred. No. 4e-22;
  Matches   55;  Conservative   19;  Mismatches   36;  Indels   15;  Gaps    2;

Qy        1 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 60
            | :  ::   ||||| |||:    | ||||:||: :|| |||||||||||  |:: :|
Db      173 PAVGWGRRPLPVTEGLVEVRLPDGWSQVCDKGWSAHNSHVVCGMLGFPSEKRVNAAFY-- 230

Qy       61 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 120
                       || :   ::|| :| | |:||| |:: | ::   |    |  ||||  |
Db      231 -----------RLLAQRQQHSFGLHGVACVGTEAHLSLCSLEFYRANDTAR--CPGGGPA 277

Qy      121 VVSCV 125
            |||||
Db      278 VVSCV 282


RESULT 13
US-09-835-996A-29
; Sequence 29, Application US/09835996A
; Patent No. US20020142953A1
; GENERAL INFORMATION:
;  APPLICANT: Ballinger, Dennis
;  APPLICANT:  Loeb, Debra
;  APPLICANT:  Montgomery, Julie
;  APPLICANT:  Tang, Y. Tom
;  APPLICANT:  Zhou, Ping
;  APPLICANT:  Goodrich, Ryle
;  APPLICANT:  Liu, Chenghua
;  APPLICANT:  Asundi, Vinod
;  APPLICANT:  Zhao, Qing
;  APPLICANT:  Wehrman, Tom
;  APPLICANT:  Drmanac, Radoje
;  APPLICANT:  Ren, Feiyan
;  APPLICANT:  Qian, Xiahong
;  APPLICANT:  Wang, Dunrui
;  TITLE OF INVENTION: MATERIALS AND METHODS RELATING TO LIPID METABOLISM
;  FILE REFERENCE: 28110/35915A
;  CURRENT APPLICATION NUMBER: US/09/835,996A
;  CURRENT FILING DATE:  2001-04-16
;  PRIOR APPLICATION NUMBER: US 60/197,137
;  PRIOR FILING DATE: 2000-04-14
;  PRIOR APPLICATION NUMBER: US 09/714,936
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;  PRIOR FILING DATE: 2000-11-17
;  PRIOR APPLICATION NUMBER: US 09/667,298
;  PRIOR FILING DATE: 2000-09-22
;  PRIOR APPLICATION NUMBER: US 09/631,451
;  PRIOR FILING DATE: 2000-08-03
;  PRIOR APPLICATION NUMBER: US 09/598,042
;  PRIOR FILING DATE: 2000-06-20
;  NUMBER OF SEQ ID NOS: 45
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 29
;   LENGTH: 753
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-835-996A-29

  Query Match             38.8%;  Score 269.5;  DB 10;  Length 753;
  Best Local Similarity   44.0%;  Pred. No. 4e-22;
  Matches   55;  Conservative   19;  Mismatches   36;  Indels   15;  Gaps    2;

Qy      1 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 60
          | :   ::  ||||| |||:    | ||||:||: :|| |||||||||||  |:: :|
Db    173 PAVGWGRRPLPVTEGLVEVRLPDGWSQVCDKGWSAHNSHVVCGMLGFPSEKRVNAAFY-- 230

Qy     61 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 120
                     ||  :   ::|| :| | |:||| |:: | ::   |    |  ||||  |
Db    231 -----------RLLAQRQQHSFGLHGVACVGTEAHLSLCSLEFYRANDTAR--CPGGGPA 277

Qy    121 VVSCV 125
          |||||
Db    278 VVSCV 282


RESULT 14
US-09-909-743-2
; Sequence 2, Application US/09909743
; Patent No. US20020151007A1
; GENERAL INFORMATION:
;  APPLICANT: Khodadoust, Mehran et al.
;  TITLE OF INVENTION: METHODS OF USE OF A NOVEL LYSYL OXIDASE-RELATED
;  TITLE OF INVENTION:  PROTEIN
;  FILE REFERENCE: MNI-073CP
;  CURRENT APPLICATION NUMBER: US/09/909,743
;  CURRENT FILING DATE:  2001-07-20
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/448,076
;  PRIOR FILING DATE: EARLIER FILING DATE: 1999-11-23
;  PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/276,400
;  PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-25
;  NUMBER OF SEQ ID NOS: 12
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
;   LENGTH: 753
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-909-743-2

  Query Match             38.8%;  Score 269.5;  DB 10;  Length 753;
  Best Local Similarity   44.0%;  Pred. No. 4e-22;
  Matches   55;  Conservative   19;  Mismatches   36;  Indels   15;  Gaps    2;

Qy      1 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 60
          | :   ::  ||||| |||:    | ||||:||: :|| |||||||||||  |:: :|
Db    173 PAVGWGRRPLPVTEGLVEVRLPDGWSQVCDKGWSAHNSHVVCGMLGFPSEKRVNAAFY-- 230

Qy     61 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 120
                     ||  :   ::|| :| | |:||| |:: | ::   |    |  ||||  |
Db    231 -----------RLLAQRQQHSFGLHGVACVGTEAHLSLCSLEFYRANDTAR--CPGGGPA 277

Qy    121 VVSCV 125
          |||||
Db    278 VVSCV 282


RESULT 15
US-09-782-980-17
; Sequence 17, Application US/09782980
; Patent No. US20020072089A1
; GENERAL INFORMATION:
;  APPLICANT: Khodadoust, Mehran M.
;  APPLICANT:  MacBeth, Kyle J.
;  APPLICANT:  Busfield, Samantha J.
;  APPLICANT:  McCarthy, Sean A.
;  APPLICANT:  Holtzman, Douglas A.
;  APPLICANT:  Gu, Wei
;  APPLICANT:  White, David
;  APPLICANT:  Pan, Yang
;  TITLE OF INVENTION: NOVEL ITALY, LOR-2, STRIFE, TRASH, BDSF, LRSG, AND
;  TITLE OF INVENTION:  STMST PROTEIN AND NUCLEIC ACID MOLECULES AND USES
;  TITLE OF INVENTION:  THEREFOR
;  FILE REFERENCE: MNI-121CP
;  CURRENT APPLICATION NUMBER: US/09/782,980
;  CURRENT FILING DATE:  2001-02-13
;  PRIOR APPLICATION NUMBER: PCT/US00/02125
;  PRIOR FILING DATE: 2000-01-27
;  PRIOR APPLICATION NUMBER: 09/448,076
;  PRIOR FILING DATE: 1999-11-23
;  PRIOR APPLICATION NUMBER: 09/276,400
;  PRIOR FILING DATE: 1999-03-25
;  PRIOR APPLICATION NUMBER: 60/117,580
;  PRIOR FILING DATE: 1999-01-27
;  PRIOR APPLICATION NUMBER: 09/014,195
;  PRIOR FILING DATE: 1998-01-27
;  PRIOR APPLICATION NUMBER: 09/014,348
;  PRIOR FILING DATE: 1998-01-27
;  PRIOR APPLICATION NUMBER: 09/086,892
;  PRIOR FILING DATE: 1998-05-29
;  PRIOR APPLICATION NUMBER: 09/296,208
;  PRIOR FILING DATE: 1999-04-21
;  PRIOR APPLICATION NUMBER: 09/063,950
;  PRIOR FILING DATE: 1998-04-21
;  PRIOR APPLICATION NUMBER: 09/561,381
;  PRIOR FILING DATE: 2000-04-28
;  PRIOR APPLICATION NUMBER: 09/561,810
;  PRIOR FILING DATE: 2000-04-28
;  PRIOR APPLICATION NUMBER: 09/087,121
;  PRIOR FILING DATE: 1998-05-29
;  PRIOR APPLICATION NUMBER: 09/672,721
;  PRIOR FILING DATE: 2000-09-28
;  PRIOR APPLICATION NUMBER: 09/049,799
;  PRIOR FILING DATE: 1998-03-27
;  NUMBER OF SEQ ID NOS: 176
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
;   LENGTH: 754
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-09-782-980-17

  Query Match             37.0%;  Score 256.5;  DB 10;  Length 754;
  Best Local Similarity   42.4%;  Pred. No. 1.2e-20;
  Matches   53;  Conservative   18;  Mismatches   39;  Indels   15;  Gaps    2;

Qy      1 PILASAKQHSPVTEGAVEVKYEGHWRQVCDQGWTMNNSRVVCGMLGFPSEVPVDSHYYRK 60
          | :   ::  ||||| |||:    | ||||:||: :|| ||||||||| |  |:  :||
Db    174 PAVEWGRRPLPVTEGLVEVRLPEGWSQVCDKGWSAHNSHVVCGMLGFPGEKRVNMAFYRM 233

Qy     61 VWDLKMRDPKSRLKSLTNKNSFWIHQVTCLGTEPHMANCQVQVAPARGKLRPACPGGMHA 120
          :   |             ::|| :| | |:||| |::   ::   |    |  | ||  |
Db    234 LAQKK-------------QHSFGLHSVACVGTEAHLSLCSLEFYRANDTTR--CSGGNPA 278

Qy    121 VVSCV 125
          |||||
Db    279 VVSCV 283


Search completed: March 28, 2003, 12:30:18
Job time : 7.18074 secs
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